

EAST - [10084115.wsp:1]

File View Edit Tools Window Help

L2: (30814) L1 and ((wireless or cellular) near5 system)

L3: (1299) L2 and (AGC or "variable gain controller" or "automatic gain contr

L4: (798) L3 and "base station"

L5: (123) L4 and (controller and node)

L6: (72) L5 and "power level"

L7: (53) L6 and monitor\$3

L8: (39) L7 and "control signal"

L9: (29) L8 and (combin\$3 near5 signal)

L10: (0) 9 and (upstream\$3 near8 wireless)

L11: (85104) wireless near5 system

L12: (2004) 11 and "remote unit"

L13: (158) 12 and "input port"

L14: (32) 13 and (AGC or "variable gain controller" or "automatic gain control

L15: (15) 14 and node

L16: (15) 15 and controller

L17: (14) 16 and (power near2 monitor)

L18: (1) 17 and (upstream\$3 near8 wireless)

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S13: (35) S12 and digital

S25: (3) S23 not satellite

S27: (13) S26 and port

United States
Patent Application Publication (as Pub. No.: US 2003/0162516 A1)
(as Pub. Date: Aug. 21, 2003)

100 INTEGRATED AUTOMATIC GAIN CONTROL SYSTEM

101 ABSTRACT

102 Inventor: Jeff Solun, Deptford, NJ (US)
103 Application Assignee: LEFFERTS AT&T POLYTECH, P.A.
ED. BELL LABORATORIES
MURRAY HILL, NJ 07948-4000 U.S.

104 Appl. No.: 10/000,023
105 Filing Date: Feb. 21, 2002

106 Publication Date: Apr. 21, 2003

107 Int. Cl.: H04B 1/46

A wireless distribution system includes a number of locations each connected to a remote unit to receive wireless signals from a base station. The remote units are connected to a power source or higher power of a node where the signals are combined. A number of higher power antennas separately connected to each of the input ports to receive power from the power source or node. The remote units also receive power from the power source or node. The remote units then forward signals received at one or all of the input ports to a controller which then forwards the signals to a central location. The controller then forwards signals to a number of output ports.

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| U | I | Document ID | Issue Date | Pages | Title | Current OR | Current | Ret | Inventor |
|---|--------------------------|---|------------|-------|---|------------|-----------|----------|-------------|
| 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> US 20030162516 A1 | 20030828 | 8 | Distributed automatic gain control system | 455/234.1 | 455/234.1 | 455/3.01 | Solun, Jeff |

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 - L19: (20099) 455/232.1 455/234.1 455/234.2 455/236.1 455/240.1 455/241.1 455/242.1 455/243.1 455/244.1 455/245.1 455/246.1 455/247.1 455/248.1 455/249.1 455/277.1 455/334 455/335 455/403 455/138-140 370/334 370/335 370/431 370/437 370/455 370/497 370/318 370/400
 - L20: (8800) 19 and ((wireless or cellular) near5 system)
 - L21: (720) 20 and (AGC or "variable gain controller" or "automatic gain control")
 - L22: (444) 21 and "control signal"
 - L23: (71) 22 and "remote unit"
 - L24: (9) 23 and (power near2 monitor)
 - L25: (1) 24 and (upstream\$3 near8 wireless)

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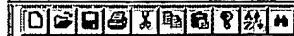
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24 and (upstream\$3 near8 wireless)

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- L6: (72) L5 and "power level"
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- L25: (1) 24 and (upstream\$3 near8 wireless)
- L26: (28) 21 and "control signal".clm.
- L27: (2) 26 and (power near2 monitor).clm.
- L28: (1) 27 and (upstream\$3 near8 wireless).clm.

(a) United States
 (a) Patent Application Publication (a) Pub. No: US 20030162516 A1
 (a) Pub. Date: Aug. 28, 2003

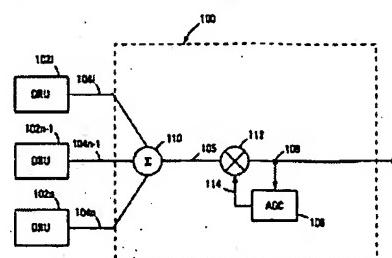
(b) DISTRIBUTED AUTOMATIC GAIN CONTROL SYSTEM (c) 0.2. C1 455/234.1; 455/232.1; 455/236

(d) Inventor: Jeff Solun, Dorphens, MO (US) (f) ABSTRACT

Cross-Reference to Related Applications
 (e) Continuation or Divisional Application
 (g) A variable gain distribution system includes a number of remote units distributed in a network and in remote locations which are connected to a central location via a fiber optic cable. The distribution system is input ports at each where the signals are converted to optical fibers and output ports which receive optical signals from the fiber optic cable. Variable gain modules are located at the input ports, variable power modules at the output ports, variable gain controllers in several signals received a user or all of the signals from the fiber optic cable, and a central processing unit for plurality of input ports, and a controller to provide control signals to several ports or some of the variable gain modules.

(h) Appl. No.: 10/394,012 (i) Pub. No.: 20030162516 (j) Pub. Date: Aug. 28, 2003

(k) Int. Cl.: F03K 7/00 (l) Priority Date: 10/23/2001



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